TFW



THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

In re Application of:

DRUMM, et al.

Confirmation No. 9864

Serial No. 10/511,657

Group Art Unit: 1635

Filed: April 18, 2005

Examiner: Wollenberger, Louis V.

For: MEANS AND METHODS FOR THE SPECIFIC MODULATION OF TARGET GENES IN THE CNS AND THE EYE AND METHODS FOR THEIR IDENTIFICATION

Date Mailed: May 31, 2007

I HEREBY CERTIFY THAT THIS SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE VIA FIRST CLASS MAIL UNDER 37 CFR 1.8 AND IS ADDRESSED TO MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

Kathleen Pujol

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or fee)

Documents Mailed:

Information Disclosure Statement (2 pages)

Form PTO-1449 (2 pages)

References Cited (35)

Certificate of Mailing

Postcard

IN THE UNITED TES PATENT AND TRADEMARK OFFICE

In re Application of:

DRUMM, et al.

Serial No. 10/511,657

Filed: April 18, 2005

: Confirmation No. 9864

Group Art Unit: 1635

Examiner: Wollenberger, Louis V.

For: MEANS AND METHODS FOR THE SPECIFIC MODULATION OF

TARGET GENES IN THE CNS AND THE EYE AND METHODS FOR

THEIR IDENTIFICATION

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The undersigned asserts that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.



AUTHORIZATION

No fee is required. The Commissioner is hereby authorized to charge any additional fees which may be required for this submission, or credit any overpayment to Deposit Account No. 50-0436.

Respectfully submitted,

PEPPER HAMILTON LLP

Raymond A. Miller

Registration No. 42,891

Pepper Hamilton LLP 500 Grant Street, 50th Floor Pittsburgh, PA 15219

Telephone: (412) 454-5000 Facsimile: (412) 281-0717

Date: May 31, 2007



	16	RADOM	S. C.	<u>/</u>			1	Complete if	Known			
Substitute for form 1449/PTO						Application I	10/511,657					
											-	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)							Filing Date	April 18, 2005				
							First Named Inventor		Drumm			
							Group Art Unit		1635			
							Examiner Na	Wollenberger, Louis V.				
Sheet	1			of		2	Attorney Doc	ket Number	12940	2.0020	1	
					U.S	S. PATENT D	OCUMENTS					
Examiner's	Cite	U.S. Patent Document				Name of Patentee or Applicant		Date of	Pages, Columns, Lines,			
Initials	No.					of Cited Document		Publication of Cited Document	Where Relevant Passages or Relevant Figures Appear			
		Number Kind Code]		MM-DD-YYYY	Kelevant rigules Appear			
		(if known)										
	A1		005490)2	A1	Pardridge		05-09-2002				
	A2	5,550	289		J A	Eppstein et al.		08-27-1996				
							T DOCUMENT	<u> </u>				
Examiner's Initials	Cite	Foreign Patent Document			ent		entee or Applicant	Date of	Pages, Columns, Lines			T
	No.					of Cited	I Document	Publication of Cited Document	Where Relevant Passages or Relevant			-
		Office Number Kind Code						MM-DD-YYYY	Figures Appear			
				(if kı	nown)			, iguiou, ppeur				
	B1	wo	98/48		A2	University of Fl		10-29-1998				
	B2	wo	94/08		A1	Rhone-Poulenc Rorer S.A.		04-14-1994				
 	B3	WO 02/1 WO 99/1			A2	D-Pharm Ltd. University of Florida		02-14-2002		<u> </u>	ļ	ـــــــ
	B4				A1			03-18-1999		ļ	ļ	_
· - ···· ·	B5	EP	1229		A2	Necleonics, Inc	c. et al.	08-07-2002		<u> </u>	ļ	
	B6 B7	WO WO	01/83		A	Novartis AG Cancer Res. Campaign Tech		11-08-2001 05-25-2001		 	ļ	-
	6'	***	01/30	0040	^	Lim	ampaign rech	05-25-2001			İ	
	B8	wo	00/44	1914	А	Medical Colleg		08-03-2000				
	B9	wo	02/08	38320	A	University of F		11-07-2002		†		
					nclud			ent Pages, Etc.)		- -	
Examiner's	Cite	Includ	e nam	e of the auth	or (in C	APITAL LETTE	RS), title of the artic	le (when appropriat	e), title of	the item	(book.	T
Initials	No.	maga	zine, jo	urnal, serial	, sympo	osium, catalog, e	tc.), date, page(s),	volume-issue numb	er(s), publ	isher, city	<i>,</i>	
		and/o	r count	y where pub	lished.							
	C1	CARLSON et al., Perineurium in the Drosophila embryo and its role in the blood-brain/nerve barrier, 1998, Int. J. Insect Morphology and Embryology 27(2):61-66									Int. J.	
	C2	BANKS et al., Delivery across the blood-brain barrier of antisense directed against Amyloid beta: reversal or								of		
		learning and memory deficits in mice overexpressing Amyloid precursor protein, 2001, J. Pharmacology							cology ar	nd		
		Experimental Therapeutics 297(3):1113-1121 PARDRIDGE et al., Vector-mediated delivery of a polymamide ("peptide") mucleic acid analogue through the										
	C3								analogue	through	the	
	C4						d. Sci. USA 92:5592	treatment of Alzhei				
	04					Sci. 87(11):1308		treatment of Alzhei	mer s alse	ase and		
	C5							eptor and administe	red in cr	oss the b	lood-	
	"	brain	barrier	and specific	ally rec	luce gene expres	ssion, 1999, Proc. N	latl. Acad. Sci. USA	96:7053-	7058		
	C6	brain barrier and specifically reduce gene expression, 1999, Proc. Natl. Acad. Sci. USA 96:7053-7058 LEE et al., Imaging gene expression in the brain in vivo in a transgenic mouse model of Huntington's disease with an antisense radiopharmaceutical and drug-targeting technology, 2002, J. Nuclear Medicine 43(7):948-956										
	C7	PENICHET et al., An antibody-Avidin fusion protein specific for the Transferrin Receptor serves as a delivery									ery	
			vehicle for the effective brain targeting: initial applications in anti-HIV antisense drug delivery to the brain, 1999, J. Immun. 163:4421-4426									
	C8					d blood-brain ba	rrier transport of [3]	1]-biotinylated phos	phorothioa	ate		
		oligod	leaoxyı		onjugat	ed to a vector-m		ry system, 1996, J.			and	
Examiner				(./			Date Considered					
Signature	1					l						

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



<u>PATENT</u>

	180			Complete if Known							
Substitute	for forr	n 1449/PTO		Application Number Filing Date		10/511,657 April 18, 2005					
	INFO	DRMATION DISCLOSU	RE								
	STA	TEMENT BY APPLICAN	IT	First Named In	ventor	Drumm 1635					
	(use a	s many sheets as necess	sarv)	Group Art Unit							
		, , , , , , , , , , , , , , , , , , , ,	7,	Examiner Name	9	Wollenberger, Louis V					
Sheet		2 of	2	Attorney Docke	t Number	129402.00201					
	C9	SHI et al., Antisense imaging of gene expression in the brain in vivo, 2000, Proc. Natl. Acad. Sci. USA 97(26):14709-14714									
	C10	BOADO, Antisense drug delivery through the blood-brain barrier, 1995, Adv. Drug Delivery Reviews 15(1/3):73-									
	C11		netic network of prototypic planarian eye regeneration is Pax6 independent, 2002,								
		Development 129:1423-143	4	· -			l				
	C12	DRYJA et al., Mutations in t recessive retinitis pigmentos	he gene encoding the sa, 1995, Proc. Natl	ne alpha subunit of the . Acad. Sci. USA 92:10	rod cGMP-gated	d channel in autosomal					
	C13	HUNT et al., Vitreous treatm 1998, Investigative Ophthali	nent of retinal pigme	nt epithelial cells result		expression of FGF-2,					
	C14	KOCIOK et al., Vitreous trea	OCIOK et al., Vitreous treatment of cultured human RPE cells results in differential expression of 10 new enes, 2002, Investigative Ophthalmology & Visual Sci. 43(7):2474-2480								
	C15	CAMPOCHIARO, Gene the 2(5):537-544	CAMPOCHIARO, Gene therapy for retinal and choroidal diseases, 2002, Expert Opinion on Biological Therapy,								
	C16	KOCIOK et al., Upregulation of RAS-GTPase Activating Protein (GAP)-Binding Protein (G38BP) in proliferating RPE cells, 1999, J. Cellular Biochemistry 74:194-201									
	C17	CHAN et al., Expression of chemokine receptors, CXCR4 and CXCR5, and chemokines, BLC and SDF-1, in the eyes of patients with primary intraocular lymphoma, 2003, Ophthalmology 110(2):421-426									
	C18	AVGEROPOULOS et al., New treatment strategies for malignant gliomas, 1999, The Oncologist 4:209-									
	C19	GROOTHUIS, The blood-brain and blood-tumor barriers: a review of strategies for increasing drug delivery, 2000, Neuro-Oncology 2:45-59									
	C20	PARDRIDGE, Brain drug targeting and gene technologies, 2001, Japanese J. Pharmacology 87:97-103									
	C21	PARDRIEGE, Drug and gene targeting to the brain with molecular Trojan horses, 2002, Nature Reviews 1:131-139									
C22 QIAN et al., Targeted drug delivery via the Transferrin Receptor mediated endocytosi Pharmacological Reviews 54(4):561-587						pathway, 2002,					
***************************************	C23		ARDRIDGE, Vector-Mediated drug delivery to the brain, 1999, Advanced Drug Delivery Reviews, 36(2-3):299-								
C24 PARDRIDGE, CNS drug design based onprinciples of blood-brain barrier transport, 1998, J. Ne											
	C25	PARDRIDGE, Drug delivery	and Metabolism	n, 17(7):713-731							
	C26	PHILIP et al., Polarized exp ARPE-19 cells, 2003, Inves		_							
Examiner	+	1 / 1/1 L- 10 00113, 2000, 111063	ngulive Ophilianillon	Date Considered	1710-1721						
Signature				22.3 00110100100							

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.